Express5800 ES1400 System Release Notes

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Express5800 ES1400 System
Release Notes

The *Express5800 ES1400 System Release Notes* provide up-to-date information on your system. These notes also provide additional valuable information about your system that was not included in the user's guide.

Please read these notes in their entirety.

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Introduction

These System Release Notes cover the following topics:

- General Comments
- Advisories
- Documentation Errata.

General Comments

The following general comments apply to this server.

- Versions of the Network Operating Systems tested and recommended are:
  - Windows NT® 4.0 Server with Service Pack 4
  - IntraNetWare 4.11 with Support Pack 5b
  - SCO OpenServer™ 5.04 with Maintenance Supplement 504C
  - UnixWare 7®.
- The current BIOS is:
  - Version 9.

Advisories

This section contains advisories on the EXPRESSBUILDER CD-ROM, Novell® NetWare®, and SCO.

EXPRESSBUILDER

The following advisory applies to all versions of EXPRESSBUILDER.

- If you already have an operating system installed when creating a maintenance partition, EXPRESSBUILDER will warn you of the existing partition. If you want to preserve the installed operating system, do not create the maintenance partition or the existing operating system will be overlaid by the maintenance partition. Run the SSU and other utilities from diskette.

Novell NetWare

The following advisories apply when using Novell NetWare 3.12.

- CDROM.NLM does not support 32X CD-ROM drives. Because of this, the 32X CD-ROM drive cannot be mounted and accessed from a remote client.
- When either the 3C905 or the PRO100+ LAN cards are installed in the system, the latest versions of the ETHERTSM.NLM and MSM31X.NLM support modules must be used. These files are located in the LANDR9.EXE file available from subdirectory \images\netware on the EXPRESSBUILDER v2.2 CDROM. Additionally, your operating system should include the latest available 312PTD.EXE patch, also available from subdirectory \images\netware on the EXPRESSBUILDER v2.2 CDROM. Install the 312PTD.EXE patch before installing LANDR9.EXE.
- Installation of two 3C905 LAN cards is not supported.

SCO

The following advisories apply when using SCO 5.04.

- The onboard PRO100+ LAN is not supported by the PRO100+ LAN driver v1.3.1 and cannot be used under SCO. However, this driver does support PRO100+ add-in LAN cards.

Documentation Errata

Please note the following changes to the *Express5800 ES1400 User's Guide*.

Chapter 3, BIOS Setup Configuration Tables

The following BIOS Setup Configuration Tables reflect system BIOS 9. Replace the BIOS Setup Configuration tables in Chapter 3 of the *Express5800 ES1400 User's Guide* with the following tables.

Main Menu

Feature	Choices	Description	Your Setting
System Time	HH:MM:SS	Sets the system time.	
System Date	MM/DD/YYYY	Sets the system date.	
Legacy Diskette A:	Disabled 360KB 1.2 MB 720KB **1.44/1.25 MB** 2.88 MB	Selects the diskette type. The1.25 MB diskette requires a 3-mode diskette drive.	
Legacy Diskette B:	**Disabled** 360KB 1.2 MB 720KB 1.44/1.25 MB 2.88 MB	Selects the diskette type.	
Primary IDE Master	Press **ENTER**	Refer to "Primary IDE Master and Slave Submenu."	
Primary IDE Slave	Press **ENTER**	Refer to "Primary IDE Master and Slave Submenu."	
Secondary IDE Master	Press **ENTER**	Refer to "Secondary IDE Master and Slave Submenu."	
Secondary IDE Slave	Press **ENTER**	Refer to "Secondary IDE Master and Slave Submenu."	
Keyboard Features	Press **ENTER**	Refer to "Keyboard Submenu."	
Processor Settings	**Press ENTER**	Refer to "Processor Settings Submenu."	
Language	**English (US)** French, Spanish, German, Italian	Selects which language BIOS displays.	

Primary/Secondary IDE Master and Slave Submenu

Feature	Choices	Description	Your Setting
Type	**Auto**	Auto allows the system to attempt auto-detection of the drive type.	
	None	None informs the system to ignore this drive.	
	CD-ROM	CD ROM allows the manual entry of some fields described below.	
	IDE Removable	Determines that a removable IDE drive is installed. IDE allows the manual entry of fields described below.	
	ATAPI	Determines that a removable ATAPI drive is installed. ATAPI allows the manual entry of fields described below.	
	User	User allows the manual entry of all fields described below.	
Cylinders	0 to 65535	Number of cylinders on drive. This field is changeable only for Type User.	
Heads	1 to 16	Number of read/write heads on drive. This field is changeable only for Type User.	
Sectors	0 to 63	Number of sectors per track. This field is changeable only for Type User.	
Maximum Capacity	N/A	Computed drive size. This field is informational only for Type User.	
Multi-Sector Transfer	Disabled 2, 4, 8, or 16 sectors	Determines the number of sectors per block for multi-sector transfers. This field is informational only for Type Auto.	
LBA Mode Control	Disabled Enabled	Enabling LBA causes logical block addressing to be used in place of cylinders, heads, and sectors. This field is informational only for Type Auto.	
32 Bit I/O	Disabled Enabled	Enabling allows 32 bit IDE data transfers.	
Transfer Mode	Standard Fast PIO 1 Fast PIO 2 Fast PIO 3 Fast PIO 4 FPIO 3/DMA 1 FPIO 4/DMA 2	Selects the method for moving data to and from the drive. This field is informational only for Type Auto.	
Ultra DMA Mode	Disabled Mode 0 Mode 1 Mode 2	Selects the Ultra DMA Mode for moving data to and from the drive.	

Keyboard Submenu

Feature	Choices	Description	Your Setting
NumLock	On **Off**	Selects power-on state for Num Lock.	
Key Click	**Disabled** Enabled	Enables or disables key click.	
Keyboard auto-repeat rate	**30/sec** 26.7/sec 21.8/sec 18.5/sec 13.3/sec 10/sec 6/sec 2/sec	Selects the number of times per second a key will repeat while it is held down.	
Keyboard auto-repeat delay	1/4 sec **1/2 sec** 3/4 sec 1 sec	Selects delay before key repeat.	

Processor Settings Submenu

Feature	Choices	Description	Your Settings
CPU Speed Settings	Processor Speed List	Processor speed list is determined by the speed of the processor(s) installed. Select speed to match speed of installed processor(s). **Caution:** DO NOT select a speed above the speed of the installed processor(s).	
Processor Retest	**No** Yes	Select Yes if you want the BIOS to clear old processor status and retest all processors on next boot.	
Processor Serial Number	**Disabled** Enabled	Controls detection of processor serial number. **Note:** displays only when Pentium III is installed.	
Memory Cache	**Enabled** Disabled	Enables processor cache.	

Advanced Menu

Feature	Choices	Description	Your Setting
Install OS	**Other** Win95 Win98/WinNT 5.0	Select the operating system installed in your system.	
Reset Configuration Data	**No** Yes	Select Yes if you want to clear the system configuration data during next boot. System automatically resets to No in next boot.	
PCI Configuration	Press **ENTER**	Refer to “PCI Configuration Submenu.”	
Integrated Peripherals Configuration	Press **ENTER**	Refer to “Intergrated Peripherals Configuration Submenu.”	
Advanced Chipset Control	Press **ENTER**	Refer to “Advanced Chipset Control Submenu.”	
Large Disk Access Mode	**LBA** CHS	Select LBA for IDE drives. This only affects IDE drives with partitions greater than 512 Mbytes.	
Delay on Option ROMs	**Disabled** Enabled	Forces a short delay at the end of each Option ROM scan.	

PCI Configuration Submenus

This submenu should only be changed by qualified technical personnel.

⚠ CAUTION

Leave PCI Configuration Submenu at factory-default settings. This submenu should only be changed by a technically qualified person.

PCI Configuration Submenu

Feature	Choices	Description	Your Setting
PCI Device, Embedded SCSI Devices	Press **ENTER.**	N/A	
Option ROM Scan	**Enabled** Disabled	Enables option ROM scan of the selected device. Used to enable embedded Symbios SCSI controller	
Enable Master	**Enabled** Disabled	Enabled selects the device as a PCI bus master.	
Latency Timer	Default 0020h **0040h** 0060h 0080h 00A0h 00C0h 00E0h	Minimum guaranteed time, in units of PCI bus clocks, that a device may be master on a PCI bus. Caution: Do not change this setting unless you fully understand the priority of this device on the PCI bus.	

PCI Device, Slot 1 - Slot 7 Submenus

This submenu should only be changed by qualified technical personnel.

⚠ CAUTION

Leave PCI Device Submenu at factory-default settings.
This submenu should only be changed by a technically qualified person.

PCI Device, Slot 1 - Slot 7 Submenu

Feature	Choices	Description	Your Setting
Enable Master	**Enabled** Disabled	Enables selected device as a PCI bus master.	
Latency Timer	Default 020h **040h** 060h 080h 0A0h 0C0h 0E0h	Minimum guaranteed time, in units of PCI bus clocks, that a device may be master on a PCI bus. Caution: Do not change this setting unless you fully understand the priority of this device on the PCI bus.	

Integrated Peripheral Configuration Submenu

Feature	Choices	Description	Your Setting
COM 1: (Serial Port A)	Disabled **Enabled** Auto OS Controlled	Auto forces BIOS to configure the port. OS Controlled forces OS to configure the port. If this COM port is used for Console Redirection make sure I/O and IRQ are identical to the values in the server Setup Menu.	
Base I/O Address	**3F8** 2F8 3E8 2E8	Selects the base I/O address for COM port 1.	
Interrupt	IRQ 3 **IRQ 4**	Selects the IRQ for COM port 1.	
COM 2: (Serial Port B)	Disabled **Enabled** Auto OS Controlled	Auto forces BIOS to configure the port. OS Controlled forces OS to configure the port. If this COM port is used for Console Redirection make sure I/O and IRQ are identical to the values in the server Setup Menu.	
Base I/O Address	3F8 **2F8** 3E8 2E8	Selects the base I/O address for COM port 2.	
Interrupt	**IRQ 3** IRQ 4	Selects the IRQ for COM port 2	
Parallel Port	Disabled **Enabled** Auto OS Controlled	Auto forces BIOS to configure the port. OS Controlled forces OS to configure the port.	
Mode	Output only Bi-directional EPP **ECP**	Selects parallel port mode.	
Base I/O Address	**378** 278	Selects the base I/O address for LPT port. Not available in ECP or EPP modes.	
Interrupt	IRQ 5 **IRQ 7**	Selects the IRQ for LPT port.	
DMA channel	DMA 1 **DMA 3**	Selects the DMA for LPT port.	
Floppy disk controller	Disabled **Enabled**	Enables onboard diskette controller.	

Advanced Chipset Control

Feature	Choices	Description	Your Setting
640 – 768K Memory Region	**Enabled** Disabled	Enabled forwards ISA Master and DMA cycles to the PCI bus. Disabled forwards these cycles to memory.	
Delayed Transaction	Disabled **Enabled**	Enable the delayed transaction mechanism when PIIX4 is target of a PCI transaction.	
Passive Release	Disabled **Enabled**	Enable the Passive Release mechanism on PHOLD# signal when PIIX4 is a PCI MASTER.	

Security Menu

Note: Enabling the Administrtor Password field requires a password for entering Setup. The passwords are not case sensitive.

Security Menu

Feature	Choices	Description	Your Setting
User Password is	**Clear** Set	Status only; user cannot modify. Once set, this can be disabled by setting it to a null string, or by clearing password jumper on system board (see *Configuring System Board Jumpers*).	
Administrator Password is	**Clear** Set	Status only; user cannot modify.	
Set User Password	Press **ENTER**	When the <Enter> key is pressed, the user is prompted for a password; press ESC key to abort. Once set, this can be disabled by setting it to a null string, or by clearing password jumper on system board (see *Configuring System Board Jumpers*).	

Security menu (Continued)

Feature	Choices	Description	Your Setting
Set Administrator Password	Press **ENTER**	When the <Enter> key is pressed, the user is prompted for a password; press ESC key to abort. Once set, this can be disabled by setting it to a null string, or by clearing password jumper on system board (see *Configuring System Board Jumpers*).	
Password on Boot	**Disabled** Enabled	Requires password entry before boot. System will remain in secure mode until password is entered. Password on Boot takes precedence over Secure Mode Boot.	
Diskette Access	Administrator **User**	Controls access to diskette drives.	
Fixed Disk Boot Sector	**Normal** Write Protect	Write-protects boot sector on hard disk to protect against viruses.	
Secure Mode Timer	**Disabled** 1 min 2 min 5 min 10 min 20 min 1 hr 2 hr	Period of key/PS/2 mouse inactivity specified for secure mode to activate. A password is required for secure mode to function. Cannot be enabled unless at least one password is enabled.	
Secure Mode Hot Key (Ctrl-Alt-)	[ ] [A, B, ..., Z]	Key assigned to invoke the Quicklock feature. Cannot be enabled unless at least one password is enabled.	
Secure Mode Boot	**Disabled** Enabled	System will boot in secure mode. The user must enter a password to unlock the system. Cannot be enabled unless at least one password is enabled.	
Video Blanking	**Disabled** Enabled	Blank video when secure mode is activated. The user must enter a password to unlock the system. Cannot be enabled unless at least one password is enabled.	
Floppy Write Protect	**Disabled** Enabled	When secure mode is activated, the diskette drive is write protected. The user must enter a password to disable. Cannot be enabled unless at least one password is enabled.	

Server Menu

Feature	Choices	Description	Your Setting
System Management	Press **ENTER**	Refer to “System Management Submenu.”	
Console Redirection	Press **ENTER**	Refer to “Console Redirection Submenu.”	
Processor Retest	Yes **No**	Select Yes to have BIOS clear all processor status and retest the processor(s) on bootup.	
PERR# Reporting	**Disabled** SMI Only SMI & NMI	If selected, system will detect and report PERR on PCI buses.	
SERR# Reporting	**Disabled** Enabled	If enabled, system will detect and report SERR on PCI buses.	

System Management Submenu

Feature	Choices	Description	Your Setting
Sever Management Info	Press **ENTER**	Refer to “System Management Info Submenu.”	
System Event Logging	Disabled **Enabled**	When enabled, system events will be logged by BIOS and BMC.	
Clear Event Log	**No** Yes	Yes clears the system event log (SEL) in BMC.	
Front Panel Clear CMOS	**Disabled** Enabled	Clear CMOS command: Press the Reset button for 4 seconds and press Power button for 1 second. Release the buttons simultaneously.	
EMP Password switch	**Disabled** Enabled	Enables EMP password.	
EMP Password	**[A…Z, 0 9]**	This field only shows up when EMP password is enabled.	
EMP ESC Sequence	Refer to Appendix B.		
EMP Hangup Line String	Refer to your modem documentation.		
Modem Init String	Refer to your modem documentation.		
High Modem Init String	Refer to your modem documentation.		
EMP Access Mode	Pre-boot Only Always Active **Disabled**	Pre-boot Only - EMP is only enabled during power down through power up to the end of POST. Com 2 is returned to system use at the end of Post when operating system boots. Always Active - EMP is always enabled. Com 2 cannot be used by operating system. It is now dedicated for EMP use. Disabled - EMP is disabled. Com 2 is always available for system use by console redirection or operating system	
EMP Restricted Mode Access	**Disabled** Enabled	If set to Enabled, Power on/off and Reset server controls via EMP are no longer available.	
EMP Direct Connect/Modem Mode	**Direct Connect** Modem Mode	Sets how EMP connects to the server. Direct Connect means a null modem serial cable directly connects COM 2 connector port to the EMP console machine. Modem mode indicates that a modem is connected on COM 2 for EMP use.	

Server Management Information Submenu

Items on this menu can not be modified by the user. If items require changes, consult your system administrator.

Server Management Information Submenu

Feature	Choices	Description	Your Setting
Board Part Number	N/A	Information field only	
Board Serial Number	N/A	Information field only	
System Part Number	N/A	Information field only	
System Serial Number	N/A	Information field only	
Chassis Part Number	N/A	Information field only	
Chassis Serial Number	N/A	Information field only	
BMC Revision	N/A	Information field only	

Console Redirection Submenu

Feature	Choices	Description	Your Setting
COM Port Address	**Disabled** 3F8 2F8 3E8	When enabled, console redirection uses the I/O port specified. 3F8 is typically COM 1 and 2F8 is typically COM2. Make sure these values are identical to those of serial port A and B in the Peripheral Configuration Setup Menu.	
IRQ #	3 or 4 **None**	When console redirection is enabled, this displays the IRQ assigned per the address chosen in the COM Port Address field.	
Baud Rate	9600 **19.2k** 38.4k 115.2k	Communications line dependent.	
Flow Control	No Flow Control CTS/RTS XON/XOFF **CTS/RTS + CD**	Communications line dependent.	

Boot Menu

Feature	Choices	Description	Your Setting
Boot Device Priority	Press **ENTER**.	Refer to “Boot Device Priority Submenu.”	
Hard Drive	Press **ENTER**.	Refer to “Hard Drive Submenu.”	
Removable Devices	Press **ENTER**.	Refer to “Removeable Devices Submenu.”	

Boot Device Priority Submenu

Use the up or down arrow keys to select a device, then press the <+> or <-> keys to move the device higher or lower in the boot priority list.

Boot Device Priority Submenu

Boot Priority	Device	Description	Your Setting
1.	Removable Devices	Attempts to boot from a removable media device.	
2.	ATAPI CD-ROM Drive	Attempts to boot from an ATAPI CD-ROM drive.	
3.	Hard Drive	Attempts to boot from a hard drive device.	
4.	LANDesk® Service Agent II	Attempts to boot from diagnostic boot partition of the flash memory.	

Hard Drive Submenu

For options on this menu, use the up or down arrow keys to select a device, then press the <+> or <-> keys to move the device higher or lower in the boot priority list.

Hard Drive Submenu

Option	Description
1. Other Bootable Device	Covers all the boot devices that are not reported to the system BIOS through the BIOS boot specification mechanism. This includes all PCI cards that are not bios boot compliant (legacy) as well as ISA cards that are not PnP compliant.. ISA legacy cards will boot first before non bios boot compliant PCI cards (in scan order from lowest slot to highest).
2. Hard Drive #1 (or actual drive string)	IDE drives will have a suffix attached to the drive ID string: PM - hard drive on Primary Master Channel PS - hard drive on Primary Slave Channel SM - hard drive on Secondary Master Channel SS - hard drive on Secondary Slave Channel SCSI CD-ROMs will be displayed here because the onboard Symbios SCSI bios treats CD-ROMs as hard drives. SCSI removable drives will also appear here.

Removable Devices

For options on this menu, use the up or down arrow keys to select a device, then press the <+> or <-> keys to move the device higher or lower in the boot priority list.

Removable Devices Submenu

Option	Description
1. Legacy Floppy Drive	Refers to the onboard 3.5” floppy drive.

Exit Menu

You can make the following selections on the Exit Menu. Select an option using the up or down arrow keys, then press <Enter> to execute the option. Pressing <Esc> does not exit this menu. You must select one of the items from the menu or menu bar to exit.

Exit Menu

Choices	Description
Exit Saving Changes	Exits after writing all modified Setup item values to CMOS.
Exit Discarding Changes	Exits leaving CMOS unmodified.
Load Setup Defaults	Loads default values for all Setup items.
Load Custom Defaults [ENTER]	Loads settings from custom defaults.
Save Custom Defaults [ENTER]	Saves present Setup values to custom defaults.
Discard Changes	Reads the previous value of all Setup items from CMOS.
Save Changes	Writes all Setup item values to CMOS.

Chapter 4, Replacing the SECC2 Version

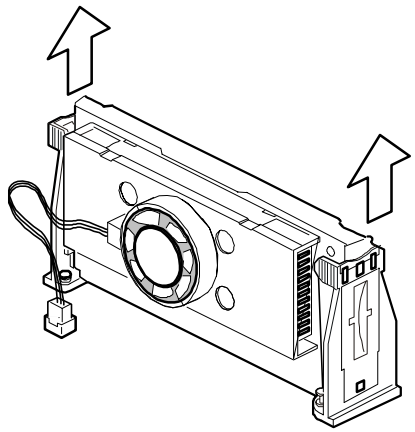
Remove this section of the *Express5800 ES1400 User's Guide* and replace it with the follow section.

Replacing the SECC2 Version

> ***Note:*** The SECC2 processor has an active heat sink that includes a cooling fan.

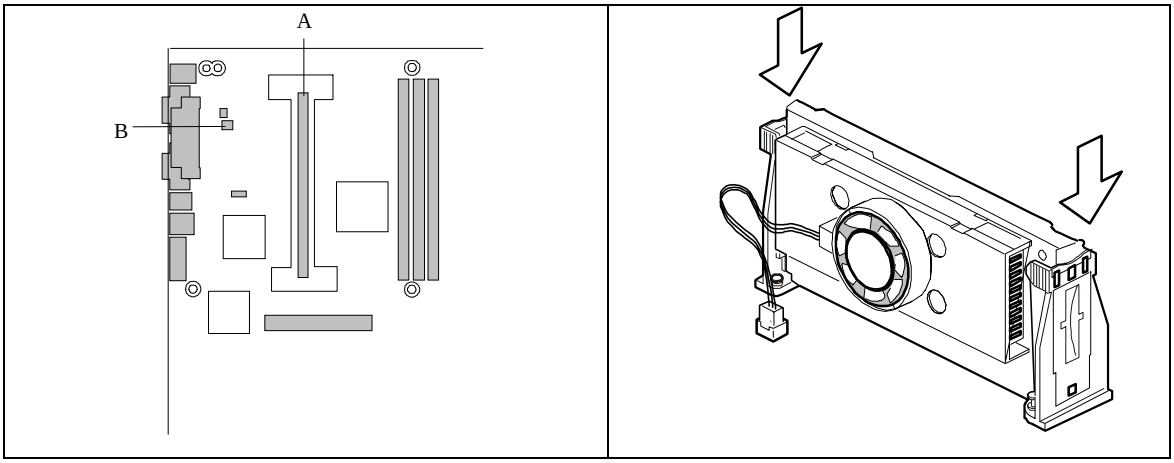
> **⚠ CAUTION**
>
> **Observe the safety and ESD precautions while performing these procedures.**

1. Power off the system and remove the left side panel as described earlier in this chapter.
2. Tag and disconnect the fan cable from the system board.
3. Lift the cartridge upward out of the Universal Retention Module (URM) and place it on a grounded, static-free surface or conductive foam pad.



Removing a Processor

4. Remove the new processor from its antistatic package.
5. Position the processor into the URM. Ensure that the alignment notch at the bottom of the cartridge fits into the connector key in the slot. Push down firmly, with even pressure on both sides of the top until the cartridge is seated.



Installing a Processor

6. Connect the fan cable to fan connector (B) on the system board.
7. After you have installed a new processor, you must run the BIOS Setup Utility (F2) to configure its speed. Refer to Chapter 3, "Configuring Your System."
8. Replace the left side panel and power up the system.